

1993-03-16

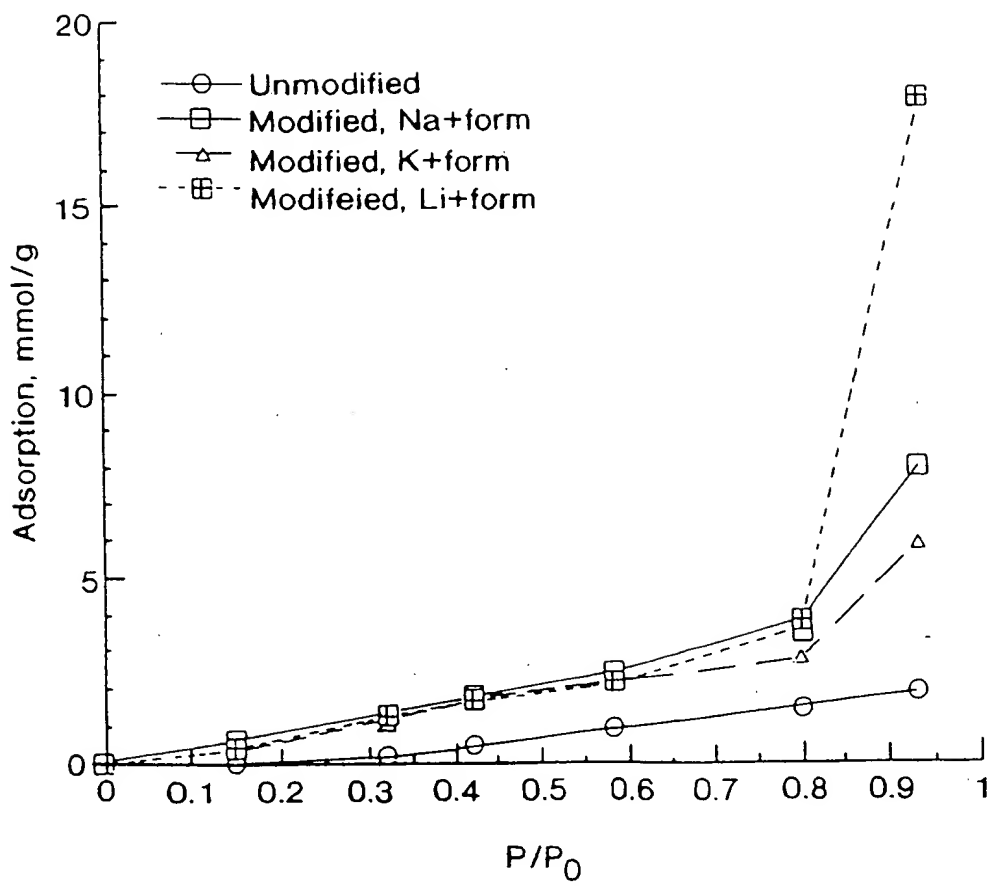


FIG. 1

P/P_0	Unmodified (mmol/g)	Modified, Na ⁺ form (mmol/g)	Modified, K ⁺ form (mmol/g)
0.0	0.0	0.0	0.0
0.15	0.2	2.1	1.5
0.3	1.6	4.4	3.5
0.4	3.2	5.2	4.5
0.58	5.8	6.9	6.0
0.8	9.5	9.5	8.8
0.95	15.0	15.2	13.5

FIG. 2

Figure 1 is a line graph showing the adsorption of water vapor (in micromol/m² surface area) versus the relative pressure (P/P_0) for two samples: Unmodified (open circles) and Modified, Na+form (filled circles). The modified sample shows a much higher adsorption capacity, especially at higher relative pressures, reaching nearly 90 micromol/m² at $P/P_0 = 0.95$, while the unmodified sample reaches only about 21 micromol/m² at the same pressure.

P/P_0	Unmodified (micromol/m²)	Modified, Na+form (micromol/m²)
0.0	0	0
0.15	0	7
0.32	2	15
0.42	5	20
0.58	11	28
0.79	17	44
0.95	21	89

FIG. 3

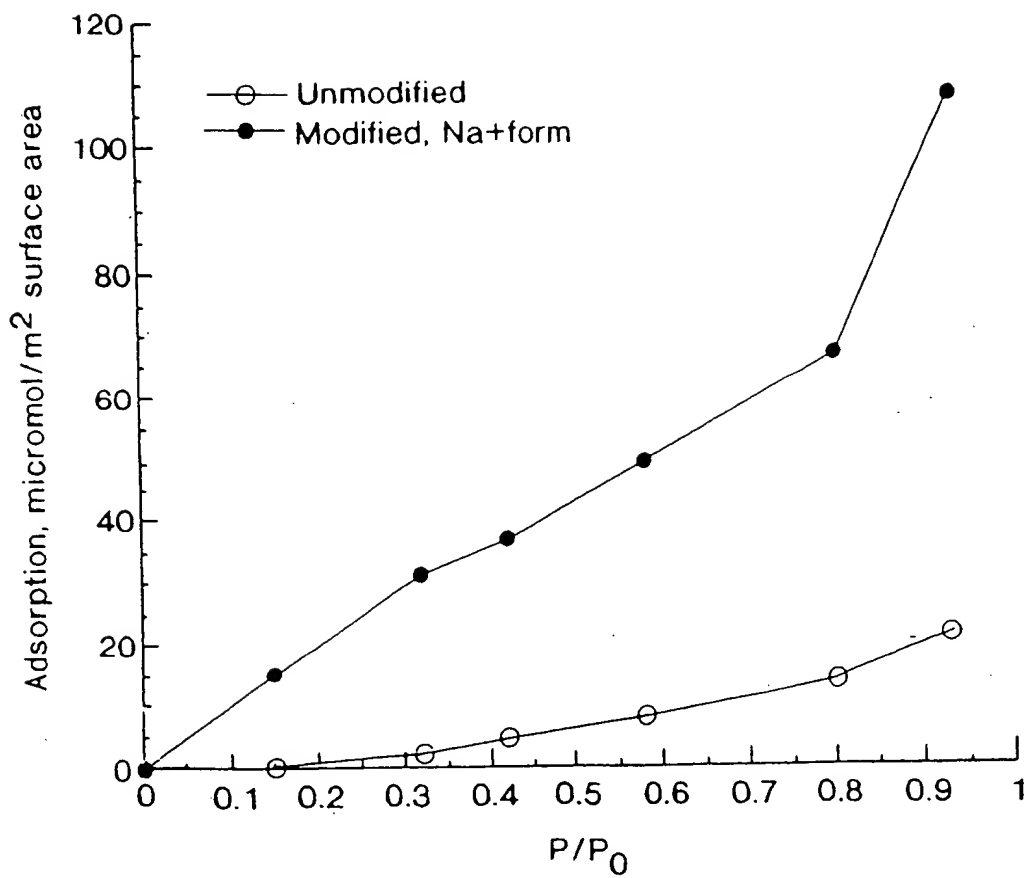


FIG. 4

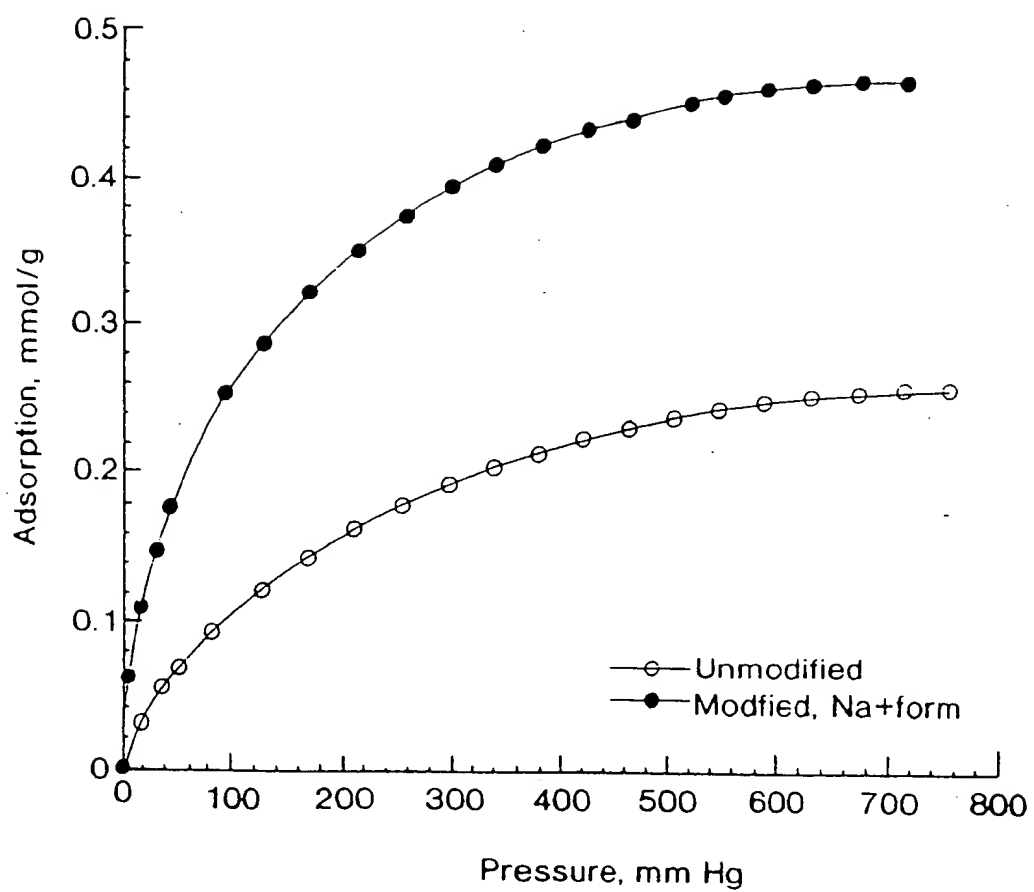


FIG. 5

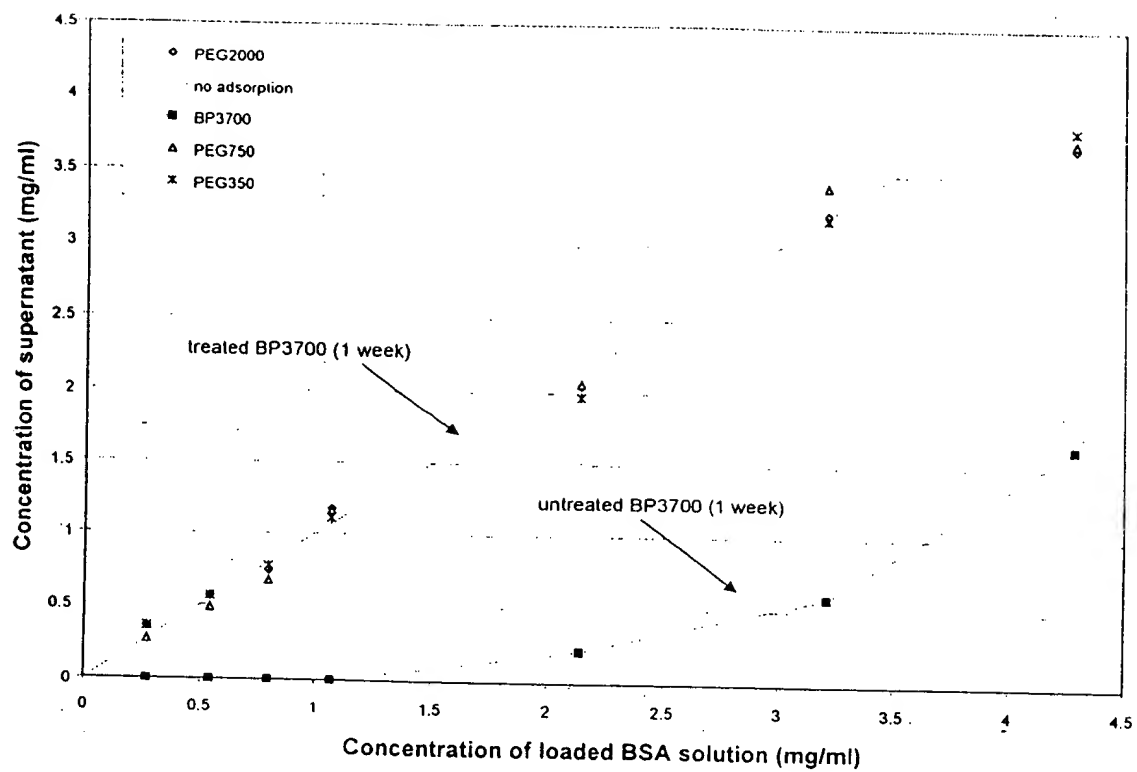
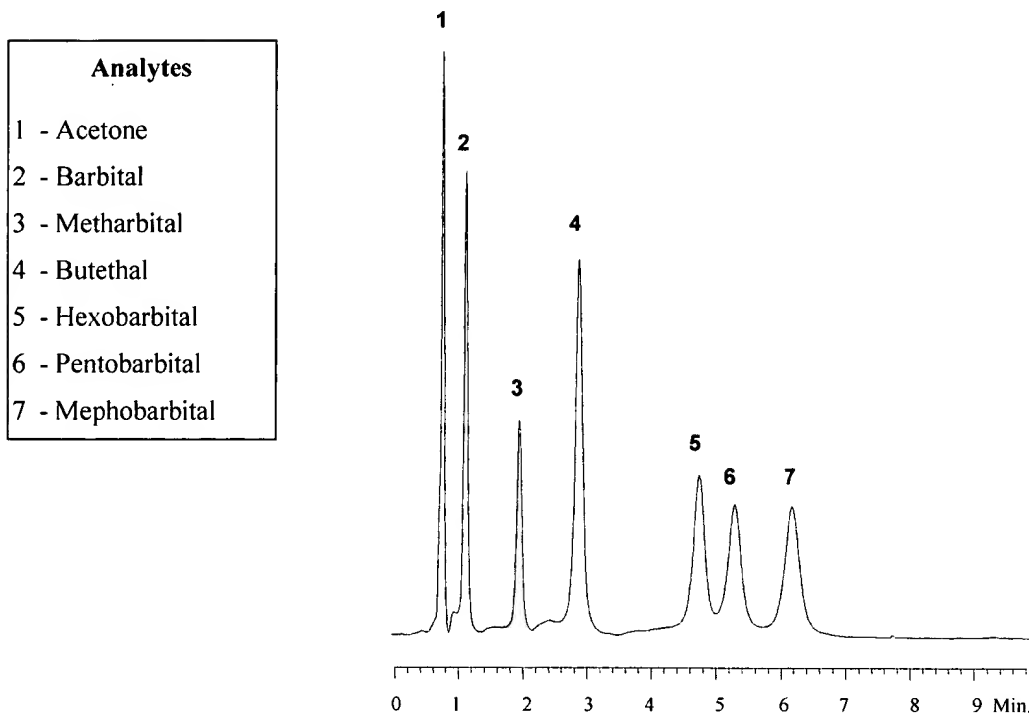


FIG. 6

Separation of Barbiturates



LC Conditions

Column: 50 x 4.6 mm

Mobile Phase: 20/80 A/B

A: ACN

B: 20 mM Ammonium phosphate, pH 7.0

Flow rate: 1.0 mL/min.

Temperature: 30 °C

Injection volume: 5 μ L

Detection: 254 nm

Figure 7. Separation of barbiturates using a 50x4.6 mm HPLC column packed with SP-2.

Figure 7

Separation of PTH-Amino Acids

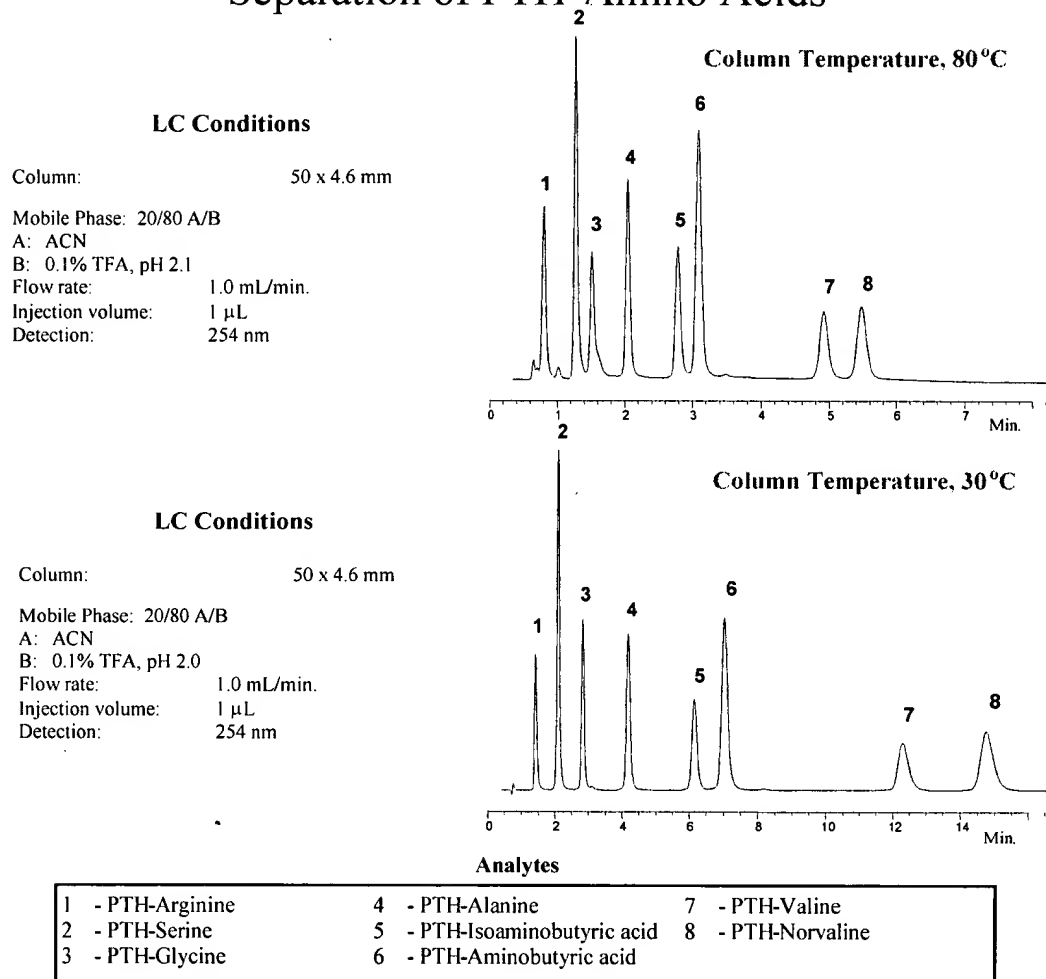


Figure 8. Separation of PTH Aminoacids using a 50x4.6 mm HPLC column packed with SP-2.

Figure 8

Separation of NSAID's

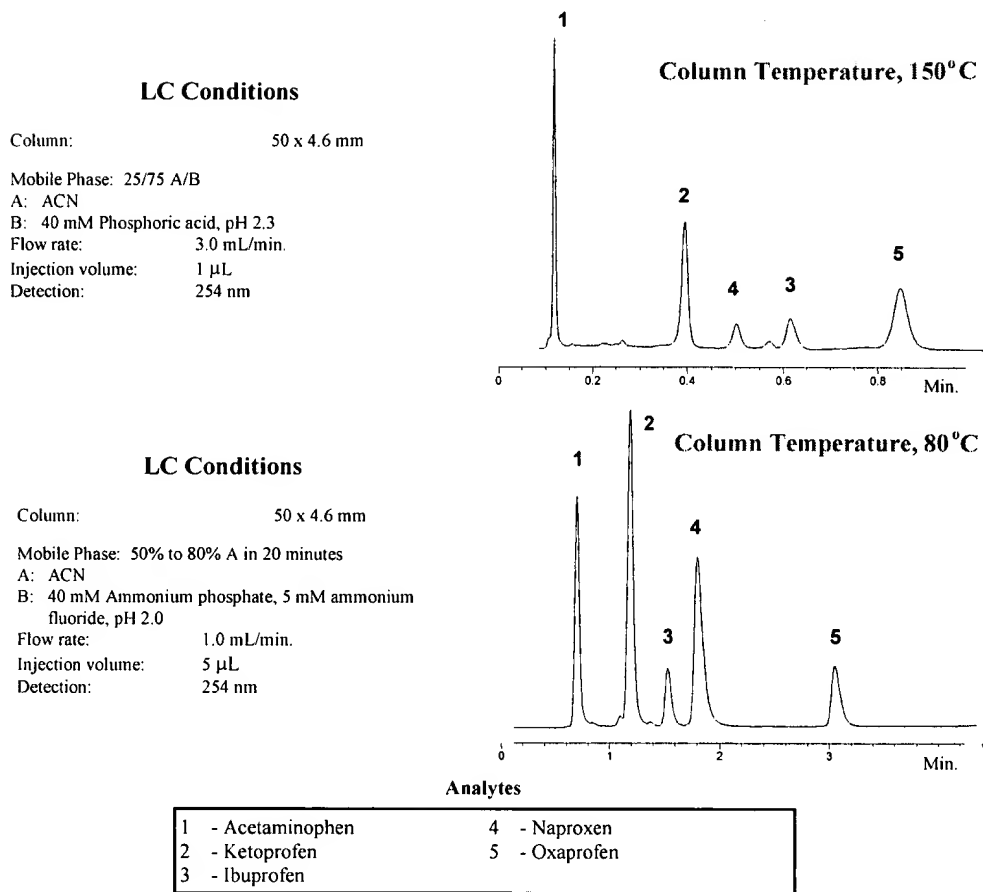


Figure 9. Separation of non steroidal anti-inflammatory drugs using a 50x4.6 mm HPLC column packed with SP-2.

Figure 9

Separation of Ethylbenzene and p-Xylene

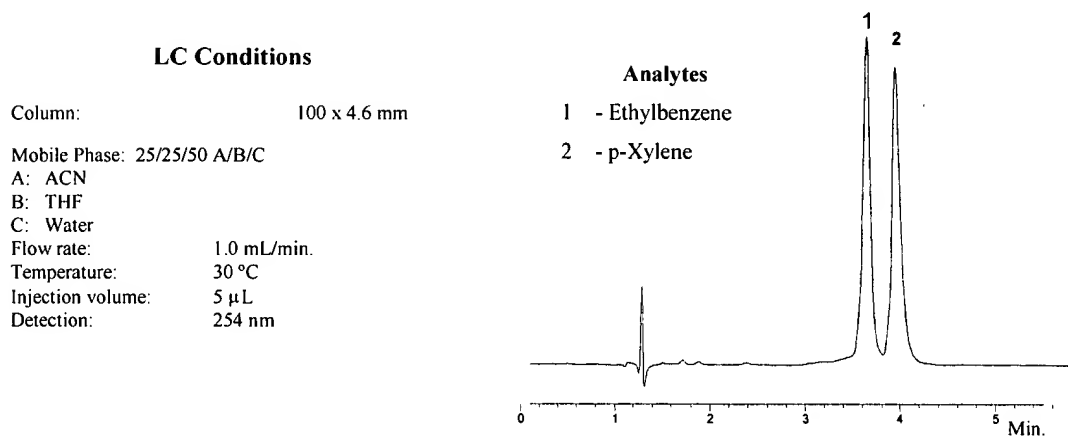
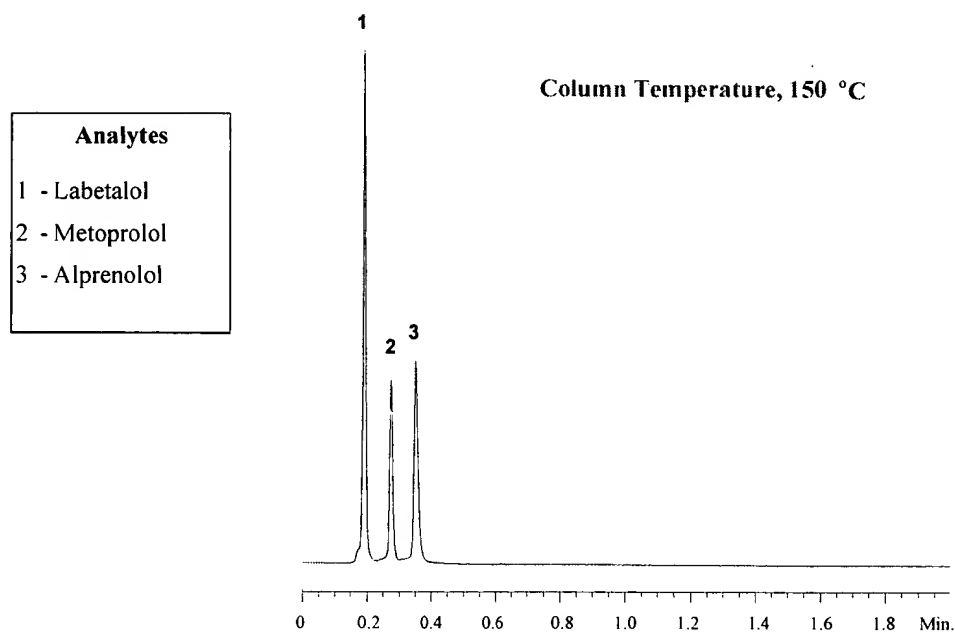


Figure 10. Separation of p-xylene and ethylbenzene using a 100x4.6 mm HPLC column packed with SP-2.

Figure 10

Separation of Beta-Blockers



LC Conditions

Column:	50 x 4.6 mm	Temperature:	150 °C
Mobile Phase: 45/55 A/B		Injection volume	1 µL
A: ACN		Detection:	210 nm
B: 20 mM Ammonium phosphate, pH 11.0			
Flow rate:	3.0 mL/min.		

Figure 11. Separation of beta-blockers using a 50 x 4.6 mm HPLC column packed with SP-2.

Figure 11